

L3 ANSWER 93 OF 379 CA COPYRIGHT 2004 ACS on STN  
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TI Manufacture of waterproof agent containing natural **zeolite** for  
cement mixes  
IN Lee, Hun Ku; Son, Jong Rak  
PA S. Korea  
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given  
CODEN: KRXXA7  
DT Patent  
LA Korean  
IC ICM C04B028-26  
ICS C04B022-12  
CC 58-3 (Cement, Concrete, and Related Building Materials)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2000001536	A	20000115	KR 1998-21859	19980612
PRAI	KR 1998-21859			19980612	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
KR 2000001536	ICM	C04B028-26
	ICS	C04B022-12

AB The waterproof agent contg. natural **pozzolan zeolite** improves moisture absorbency, adhesiveness, ion exchangeability, strength given by porous crystal structure, and water tightness. The manuf. includes mixing portland cement 65-85, super high early strength cement 10-18, natural zeolite 2-8, CaCl<sub>2</sub> 1-2, sodium silicate 1-4, and NaOH 1-3 wt. parts, and grinding the mixt. in Pot mill while drying with a hot-air. The **zeolite** contains clinoptilolite as main component, and montmorillonite and quartzite as minor components. The waterproof agent is used with 100 wt. parts of water.

ST **zeolite cement** mortar clinoptilolite waterproof agent  
IT Quartzite (metasedimentary rock)  
RL: MOA (Modifier or additive use); USES (Uses)  
(natural **zeolite** component; manuf. of waterproof agent contg.  
natural **zeolite** for cement mixes)

IT **Pozzolans**  
RL: MOA (Modifier or additive use); USES (Uses)